

Metering Services Review

December 2024

High Level Implementation Assessment (HLIA)

Preliminary view for participants on how the Rule change
may be implemented by AEMO





AEMO acknowledges the Traditional Owners of country throughout Australia and recognises their continuing connection to land, waters and culture. We pay respect to Elders past and present.

Important notice

Purpose

AEMO has prepared this document to provide preliminary information about the implementation approach for the Accelerated Smart Meter Deployment Rule and determination.

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Version control

Version	Release date	Changes
1.0	December 2024	Final

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Contents

1	Introduction	6
1.1	Accelerating smart meter deployment – Rule Change	6
1.2	Changes between the draft and final Rule	6
1.3	Document background and purpose	7
1.4	HLIA Consultation process and key dates	7
2	Market Design Overview	8
2.1	Summary	8
3	Summary of key impacts	11
4	Procedure Impacts Review	13
5	AEMO System Impacts	15
5.1	System and Data Exchange Overview	15
5.2	Data Model and Schema Impacts	22
6	Implementation Pathway	24
6.1	Key Implementation Considerations	24
6.2	Indicative Industry Readiness Approach	28
7	Participant Impact Assessment	31
7.1	Change Request Process	31
7.2	NMI Standing Data	31
7.3	Retail B2B Processes	32
7.4	Blind Update Tool	33
7.5	Data Exchange	33
7.6	B2M Schema	34
7.7	B2B Schema	34
7.8	MSATS Reports	35
7.9	RM Reports & SDQ Reports	35
7.10	NMI Discovery	36
7.11	Meter Malfunctions	36
7.12	Basic Power Quality Data	36

Tables

Timetable for the Rule change and points of stakeholder consultation.	7
Tabular view of key impacts of the Rule change	11

Initial Assessment of the Procedures and Documents Impacted	13
System Impacts	16
Reports	21
Schema Impacts	22
Key Rule Commencement Milestones	24
Packages and scope	24
Procedure Consultation Milestones	25
Industry Testing Milestones	26
Initial Assessment of the risks	28
Indicative MSR industry readiness approach	29

Figures

Figure 1 Heat Map view of key impacts of the Rule change	11
Figure 2 Participant Interaction Impacts	15
Figure 3 AEMO's Proposed MSR Packages 1 & 2 Proposed Timeline	26
Figure 4 AEMO's Proposed MSR Package 3 Proposed Timeline	27

Definitions

Definition	Description
AEMC	Australian Energy Market Commission
AEMO	Australian Energy Market Operator
API	Application programming interface
B2B	Business-to-business
B2M	Business-to-market
BUT	Blind Update Tool
CATS	Consumer Administration and Transfer Solution
C1	Data Replication Resynchronisation Report
C4	NMI Master Report
C7	New Participant Data Access Report
CP	Connection Point

Definition	Description
CR	Change request
DNSP	Distribution network service provider
FRMP	Financially responsible market participant
IDX	Industry Data Exchange
IEC	Information Exchange Committee
LMRP	Legacy Meter Replacement Plan
LNSP	Local network service provider (includes DNSP, TNSP and ENM)
LVI	Low Volume Interface, B2B browser
MC	Metering Coordinator
MDP	Metering Data Provider
MP	Metering provider
MSATS	Market Settlements and Transfer Solutions
MSR	Metering Services Review
NEM	National Energy Market
NER	National Electricity Rules
NERR	National Energy Retail Rules
NMI	National Metering Identifier
BPQD	Basic Power Quality Data
SDQ	Standing Data Quality
UI	User Interface

1 Introduction

1.1 Accelerating smart meter deployment – Rule Change

On 28 November 2024, the AEMC published the Accelerating Smart Meter Deployment Rule* that seeks to implement the recommendations of the AEMC's review of the metering framework completed in 2023.

To accelerate the deployment of smart meters, the Rule outlines a regulatory change that requires Distribution Network Service Providers (DNSPs) to create a Legacy Meter Replacement Plan (LMRP) to schedule the replacement of their type 5 and 6 (legacy) metering installations. DNSPs must prepare a schedule for each 12-month period. FRMPs will be responsible for engaging Metering Coordinators (MCs) to replace legacy metering installations with smart metering installations according to the schedule.

To facilitate the accelerated deployment, the AEMC requires new processes for managing metering installation defects and metering installations that have shared points of isolation. The Rule requires a formal defect tracking process, which will require MCs to record defects and FRMPs to record customer notifications. In addition, there will be new obligations for industry coordination between DNSPs, FRMPs, and MCs for sites with shared points of isolation.

Retailers are required to notify customers regarding the installation of smart metering. The current ability of customers to opt out of a metering installation change is removed.

MCs are required to provide DNSPs with a basic power quality data (BPQD) service. AEMO is tasked with determining the specifications, formats, and delivery mechanism for this service.

Finally, the final Rule requires AEMO to develop a guideline to assist MCs in developing asset management strategies for testing and inspecting metering installations. It also changes the arrangements for testing and inspecting legacy metering installations and managing metering installation malfunctions.

* [AEMC – Accelerating smart meter deployment – Rule Change](#)

1.2 Changes between the draft and final Rule

The final determination has made several changes from the draft Rule, including:

- The start of the smart meter deployment has been postponed to December 1, 2025, with the completion of the acceleration extended to November 30, 2030.
- The requirement to provide basic power quality data has been deferred to July 1, 2026.
- The obligation for retailers to record customer defect notifications in the Market Settlement and Transfer Solution (MSATS) has been removed.
- MCs are now required to record the type of metering installation defects in MSATS.

- DNSPs are allowed to create multiple outage dates for sites that have more than ten National Metering Identifiers (NMI) with shared isolation.
- The MC is responsible for delivering basic Power Quality Data to the DNSP.

1.3 Document background and purpose

The purpose of this document is to provide a preliminary view to participants on how the Rule change may be implemented by AEMO. This is intended to assist and inform participants in developing their own implementation timelines and impact assessments.

This document provides an indicative and preliminary overview of:

- Likely impacted Market Procedures.
- High level system and data exchange impacts.
- Indicative timelines showing consultation period, industry testing, market trial and go-live timings.

1.4 HLIA Consultation process and key dates

Timetable for the Rule change and points of stakeholder consultation.

Stage	Timeline
AEMC Draft Rule Determination	4 April 2024
AEMO publish HLIA slide pack and v0.1 of draft HLIA	9 May 2024
AEMO draft HLIA Webinar held	16 May 2024
Participant feedback to AEMO on the draft HLIA	23 May 2024
AEMC Final Rule and Determination	28 November 2024
AEMO to publish Final High Level Implementation Assessment	18 December 2024

2 Market Design Overview

2.1 Summary

The following section provides a market design overview of the reforms which will impact AEMO's Retail and Metering procedure and systems.

2.1.1 Legacy Meter Replacement Plan (LMRP)

The objective of the LMRP is for FRMPs and MCs to replace all existing type 5 and type 6 metering installations with type 4S or 4A metering installations. The LMRP applies to small customers in Queensland, New South Wales, Australian Capital Territory and South Australia which have a type 5 or type 6 metering installation.¹

The Rule requires DNSPs to consult with FRMPs, MCs and the AER to communicate the schedule of NMIs with metering installations that will be replaced under the LMRP. The process is outlined below.

DNSP consultation

- By no later than 28 February 2025 DNSPs to:
 - provide a draft of their LMRP to affected FRMPs and MCs;
 - provide a schedule of NMIs targeted for metering installation replacement in each interim period to affected FRMPs and MCs; and
 - invite feedback on the draft LMRP.

DNSP submission

- DNSPs are due to submit to the AER the LMRP by 30 June 2025.

DNSP data load

- DNSPs to record the LMRP meter replacement schedule in MSATS from 26 October 2025 to 27 November 2025.

Acceleration commencement

- MCs to progressively replace Legacy Meters with smart meters as per the LMRP(s) from 1 December 2025.

2.1.2 Metering Installation Defects

The Rule introduces a new metering installation defect notification and industry record-keeping process, which would be triggered when a technician encounters a *defect at the metering installation*; defined as a 'defect with an end user's housing of a *metering installation* or electrical wiring connected to the *metering installation* that means the *metering installation* is unable to be repaired or replaced'.

¹ The expected volumes of NMIs and meters to be replaced in the relevant jurisdictions are approximately 4 million NMIs (6 million meters) by December 2025. Tasmania is undertaking its own smart meter replacement; Victoria completed its replacement program under the Advanced Metering Infrastructure project.

The Rule requires MCs to record the defect and type of defect at the metering installation in MSATS and for the retailer to request the customer to remediate the defect. This process is an ongoing arrangement beyond the acceleration period for legacy meters.

The new process requires if a technician identifies a defect at the metering installation preventing a legacy meter exchange, the associated MP must notify the MC of the defect. The MC must:

- notify the retailer of the defect; and
- update MSATS to record a defect and nature of defect at the metering installation in MSATS.

The Rule requires that AEMO update impacted MSATS procedures. This update must specify:

- the information a MC must record when they identify a defect upon attempting to replace a legacy metering installation; and
- that only the current FRMP will have access to defect related data.

2.1.3 Shared Fusing Meter Replacement Procedure

The Rule introduces a *Shared Fusing Meter Replacement Procedure* for replacement of meters with shared fusing. There are five key steps:

1. **Discovery of shared fusing:** A MP is unable to proceed with metering installation, repair or replacement work at a NMI as it is connected via a shared fuse servicing other NMIs. The MP advises the MC; the MC (identified in this Procedure as the Original MC) must contact the FRMP that authorised the site visit to trigger the Procedure.
2. **Raising a temporary isolation request:** The retailer must inform the DNSP of the shared fuse and raise a request for a Temporary Isolation Group Supply (TIGS) within five business days.
3. **DNSP visit and notification to FRMPs:** Within 30 business days of being notified by the retailer, the DNSP must:
 - a. Visit the site and identify all affected NMIs on the shared fuse.
 - b. Determine if any of the affected NMI are legacy meters.
 - i. If there are no legacy meters impacted, the DNSP must inform the retailer; the Original MC must repair or replace the impacted meter within 25 and 65 business days.
 - ii. If one or more affected NMIs are legacy meters, the DNSP must issue a Shared Fusing Meter Replacement Notice to the relevant retailer(s).
 - iii. where the number of legacy meters on shared fuse is 10 or less, set a date and time for a supply outage, 25 business days and 65 business days after the Shared Fusing Meter Replacement Notice has been issued.
 - iv. where the number of legacy meters on the shared fuse is greater than 10, set a date and time for a supply outage, 25 business days and 65 business days after the Shared Fusing Meter Replacement Notice has been issued. The DNSP can set more than one replacement.
 - c. Issue a notice to the FRMPs of the respective NMIs. The notice must include:

- i. the details of the Original MC, which enables the retailer to appoint them as their MC for the site, should the retailer wish to do so.
 - ii. the date and time of the scheduled outage.
4. **Appointment of MCs:** Within 10 business days of receiving a notification from the DNSP, FRMPs must appoint an MC and raise a service order request for metering installation work to be undertaken at their affected NMI(s).
5. **Meter replacement:** On the date and time prescribed in the notice and service order request, the DNSP performs the outage and the metering party or parties visit the site and install the new metering installations.

Exceptions to this process include:

- Sites which are not accessible, safe or ready on the shared fusing meter replacement date.
- Impacted NMIs which have an exemption.
- Impacted NMIs which have life support.
- Impacted NMIs with a defect.

To enable this Procedure, changes to the Business-to-Business Procedures are required.

2.1.4 Testing and inspection

The Rule includes a new obligation for AEMO to create Asset Management Strategy Guidelines to:

- Detail requirements for MCs to have a testing and inspection strategy that reliably test and inspect for metering installations having regards to the costs and benefits to consumers.
- Take into account new technologies and designs of metering installations and innovations to verify metering installation accuracy and condition.
- Consider other matters that are relevant to the testing and inspection objective.

The Rule exempts MCs from testing and inspecting legacy meters during the LMRP period. The testing and inspection requirements for legacy meters would re-apply after the LMRP period ends.

2.1.5 Basic Power Quality Data (BPQD)

The Rule requires MCs to collect and deliver a BPQD service to DNSPs. BPQD refers to the units of measure of voltage, current and phase angle. The rule includes a new obligation for AEMO to create basic power quality data procedures, which might be included within an existing procedure, such as the Metrology Procedures. As part of the formal consultation process, AEMO will consult on the value of the aggregate function of the trading interval; i.e., minimum, maximum, average or instantaneous. The final determination allows AEMO to standardise the exchange architecture for MCs to deliver BPQD to DNSPs.

3 Summary of key impacts

In this section, an indicative heatmap of key AEMO impacts resulting from the Rule change is shown for Package 1, Package 2, and Package 3.

Package 1 is scoped as an enhancement to existing retail procedures and systems and new AEMO procedures. Package 2 will include a new guideline for testing and inspections for smart meters and family failures along with system changes to support the changed Metering Installation Exemption requirements.

Package 3 will include a new interface that facilitates the exchange of basic Power Quality Data between MC and DNSP.

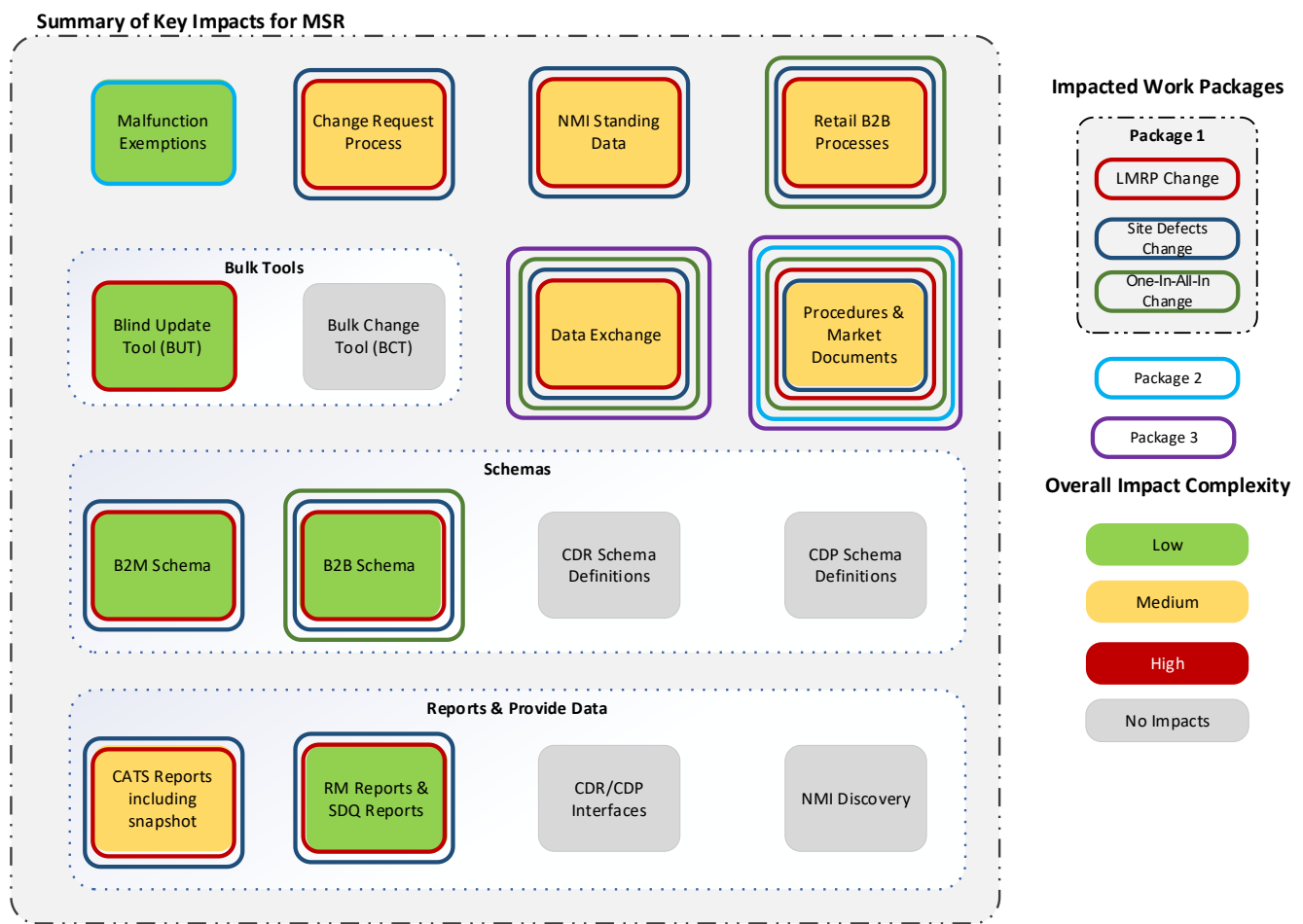


Figure 1 Heat Map view of key impacts of the Rule change

Tabular view of key impacts of the Rule change

Focus Area	Impact Heat Map	Impact Description
Malfunction Exemptions	Low	<ul style="list-style-type: none"> New exemption types and new exemption nature configurations to support Package 2 Additional fields in the MSATS Browser UI and associated API transactions for:

Focus Area	Impact Heat Map	Impact Description
		<ul style="list-style-type: none"> • Documentation Sent (checkbox) • Substitution Method (what substitution method will be used when Substitution Required checkbox is ticked)
		<ul style="list-style-type: none"> • New Automations to auto approve or auto reject exemptions based on rules.
Change Request Process	Medium	<ul style="list-style-type: none"> • Changes to existing 5000 series CRs to set Package 1 LMRP attribute • New 5000 series CRs to set Package 1 Metering Installation Defect attributes • Inclusion in MSATS Notifications of Package 1 LMRP and Metering Installation Defect attributes • Changes to the processing of existing Exchange of Meter 3000 series CRs to set Package 1 LMRP and Metering Installation Defect attributes to NULL upon replacement of a Basic Meter with a Smart Meter • Updates are needed throughout the MSATS Browser UI to reflect the additional fields added to MSATS for Package 1 (LMRP and Metering Installation Defects)
NMI Standing Data	Medium	<ul style="list-style-type: none"> • New MSATS NMI Standing data attributes to support Package 1: LMRP, Metering Installation Defects
Retail B2B Processes	Medium	<ul style="list-style-type: none"> • Updates to B2B Service Order and One Way Notification Transactions to support Package 1, LMRP, Metering Installation Defect and One in All In • Changes to the Low Volume Interface (LVI) user interface (UI) to support B2B Transaction updates • Changes to the B2B Validation module to support B2B Transaction updates
Blind Update Tool (BUT)	Low	<ul style="list-style-type: none"> • Changes to Blind Update Tool (BUT) support to set Package 1 LMRP attribute
Bulk Change Tool (BCT)	N/A	<ul style="list-style-type: none"> • No impacts identified
Data Exchange	Low	<ul style="list-style-type: none"> • B2M aseXML changes, support for aseXML_r4(n) & aseXML_r4(n-1) and transformations • B2B aseXML changes, support for aseXML_r4(n) & aseXML_r4(n-1) • A new interface will be made available to facilitate exchange of basic Power Quality data between MCs and DNSPs.
Procedures & Market Documents	Medium	<ul style="list-style-type: none"> • Refer to Section 4 for details
B2M Schema	Low	<ul style="list-style-type: none"> • Inclusion of new NMI Standing Data elements in the B2M schema to support Package 1: LMRP and Metering Installation Defect
B2B Schema	Low	<ul style="list-style-type: none"> • Inclusion of new enumerations to existing B2B schema enumerated lists to support Package 1: LMRP, Metering Installation Defect and One in All In
CDR Schema Definitions	N/A	<ul style="list-style-type: none"> • No impacts identified
CDP Schema Definitions	N/A	<ul style="list-style-type: none"> • No impacts identified
MSATS Reports	Medium	<ul style="list-style-type: none"> • Inclusion in MSATS reports of new MSATS NMI Standing data attributes to support Package 1: LMRP and Metering Installation Defect
RM Reports & SDQ Reports	Low	<ul style="list-style-type: none"> • Creation of new RM29 Standing Data Quality (SDQ) queries to support Package 1: LMRP and Metering Installation Defect
CDR/CDP Interfaces	N/A	<ul style="list-style-type: none"> • No impacts identified
NMI Discovery	N/A	<ul style="list-style-type: none"> • Package 1 attributes not available to the current or prospective FRMP or the DNSP
Basic Power Quality Data	Medium	<ul style="list-style-type: none"> • Package 3: A new interface will be made available to facilitate exchange of basic Power Quality data between MCs and DNSPs.

4 Procedure Impacts Review

Initial Assessment of the Procedures and Documents Impacted

Business-to-business (B2B) Procedures	Potential Impact
Service Order Process Procedure	<ul style="list-style-type: none"> • General: <ul style="list-style-type: none"> ○ New and amended enumerations: <ul style="list-style-type: none"> ♣ RegClassification <ul style="list-style-type: none"> • LMRP • Family Failure • One In All In ♣ ExceptionCode <ul style="list-style-type: none"> • New and Amended Codes • Defects: <ul style="list-style-type: none"> ○ New enumerations: <ul style="list-style-type: none"> ♣ PurposeOfRequest <ul style="list-style-type: none"> • Remediation Advised ♣ RecipientReference <ul style="list-style-type: none"> • Defect enumerations: refer to AEMO Standing Data for MSATS • Shared Fuse: <ul style="list-style-type: none"> ○ Updates to Supply Service Works (SSW) subtypes: <ul style="list-style-type: none"> ♣ Temporary Isolation Group Supply - Scoping Request ♣ Temporary Isolation Group Supply - One In All In ○ Amendment to the usage of the: <ul style="list-style-type: none"> ♣ 'FormNumber' field, to contain the 'Coordinated Interruption ID ♣ 'Co-ordinatingContactName' field, to contain the Original MC Participant ID ♣ 'CustomerPreferredDateAndTime field,' to contain the coordinated Interruption start and end date, and times. ○ Updates to Metering Service Works (MSW) subtypes: <ul style="list-style-type: none"> ♣ Install Meter Isolation Device ○ Amendments to Table 12 re Timing Period for completion of work
One Way Notification Process Procedure	<ul style="list-style-type: none"> • Meter Fault and Issue Notification (for Shared Fuse): <ul style="list-style-type: none"> ○ New 'ReasonForNotice' code of 'One In All In' ○ 'Coordinated Interruption ID', NMIs Impacted and Original MC to be provided in the 'Notes', for the retailer to use in the Metering Service Work (MSW) Meter Exchange Service Order

Market Settlement and Transfer Solutions (MSATS)	Potential Impact
MSATS Procedures – Principles and Procedures for All Connection Points	<ul style="list-style-type: none"> • New and amended Change Request codes to support proposed LMRP, Defect Flag, Defect Type, Originating MC • Changes to Blind Update Tool to support the population of the LMRP field • Potential automation changes, where a defect is resolved and a smart (COMMS) meter is successfully installed, set the LMRP and Defect fields to NULL • Add a new obligation by Role for the DNSP to populate the LMRP field • Add new obligation by Role for the MC to update the Defect field as required in the NER.
Standing Data for MSATS	<ul style="list-style-type: none"> • Provide details associated to the following proposed data element fields: <ul style="list-style-type: none"> ○ LMRP ○ Defect Flag ○ Defect Type ○ Originating MC

Metering procedures, guidelines and processes	Impact
Metering Installation Malfunction Exemption Procedure	<ul style="list-style-type: none"> • Modify the procedure to reflect the changes to the testing and inspection arrangements and the metering installation malfunction requirements in the Rule.
Asset Management Strategy Guideline (New)	<ul style="list-style-type: none"> • AEMO to develop an Asset Management Strategy Guideline to clarify the testing and inspection requirements for MCs.

Metrology Procedures and unmetered loads	Impact
Metrology Procedure Part A	<ul style="list-style-type: none"> • Update section 8 'Routine testing and inspection of metering installations'
Basic power quality procedures	<ul style="list-style-type: none"> • AEMO to develop basic power quality data procedures that include requirements for the collection, processing and sharing BPQD and appropriate service levels. • This may be a separate procedure or included within an existing procedure, such as the Metrology Procedures.

Accreditation and Registration	Impact
Guide to the Role of the Metering Coordinator	<ul style="list-style-type: none"> • Obligation of MCs to update MSATS with Defect(s) • MCs to comply with the Asset Management Strategy Requirements

5 AEMO System Impacts

This section summarises the participant interaction, system, interface, and schema impacts for Packages 1, 2 and 3.

5.1 System and Data Exchange Overview

AEMO Systems Heat Map

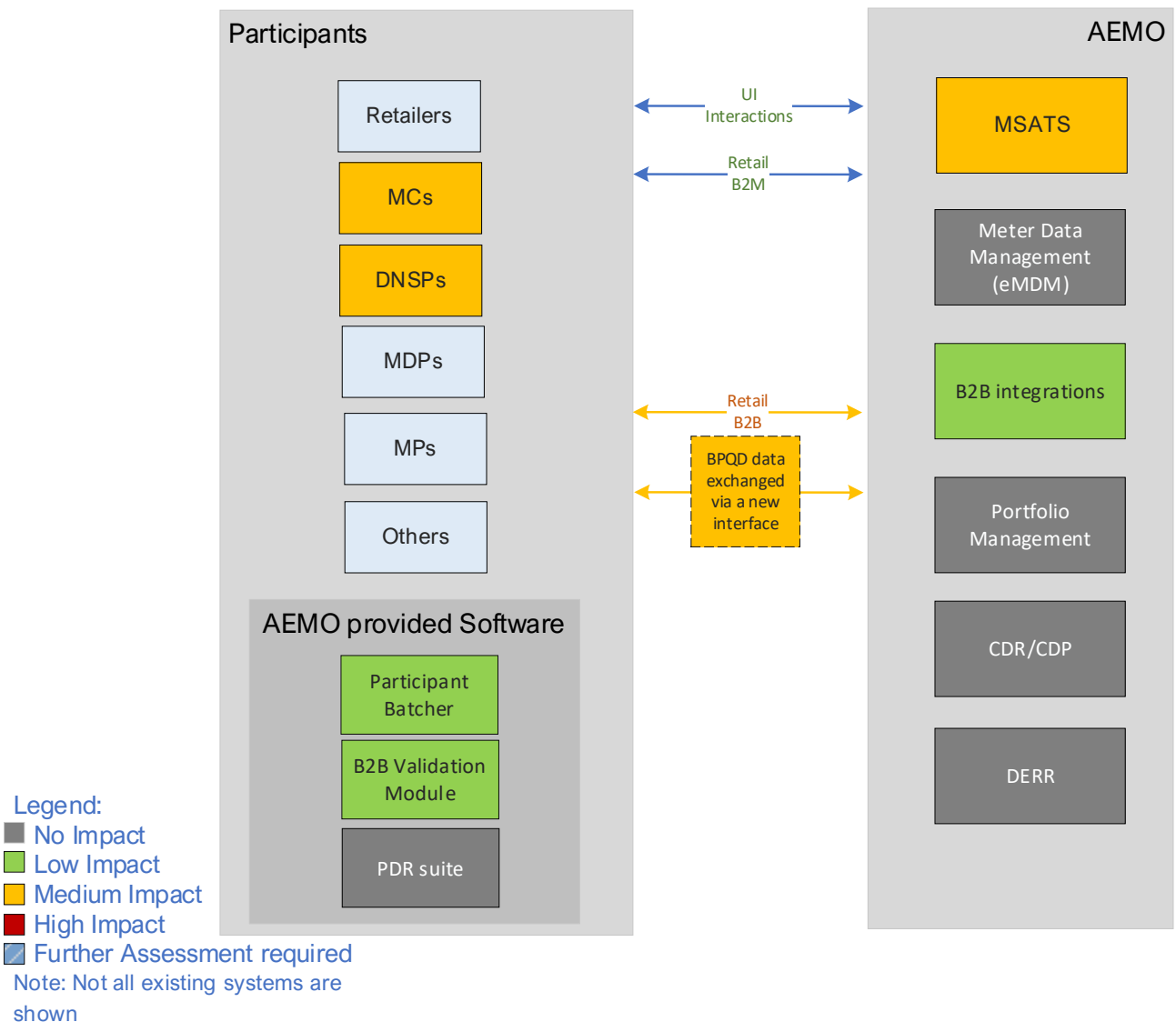


Figure 2 Participant Interaction Impacts

5.1.1 System Impacts

System Impacts

AEMO System	Summary
MSATS	<p>AEMO, with support from the MSR Working Group, has identified several updates to MSATS to support Package 1 as described in the AEMC’s determination. To aid Industry in meeting the Rule effective date, the following design leverages the established MSATS standing data, change request processing, data access, and data update frameworks.</p> <p>MSATS - Package 1 - LMRP</p> <ul style="list-style-type: none"> • A new MSATS NMI Standing Data (CATS_NMI_DATA) attribute to be created <ul style="list-style-type: none"> ○ Records the LMRP meter replacement schedule for the NMI in MSATS in accordance with relevant procedures ○ Format of the LMRP value is dd-mmm-yyyy • DNSPs to update LMRP values using Blind Update Tool (BUT) and/or existing MSATS CRs <ul style="list-style-type: none"> ○ BUT to support DNSP management of LMRP attribute for an NMI <ul style="list-style-type: none"> ▪ BUT to support the initial population of LMRP value by DNSPs BUT to support the update of LMRP values by DNSPs where the AER has approved amendments to the LMRP schedule over the acceleration period (2025-2030). A window for BUT updates may be reopened with DNSP approval for significant LMRP updates, with the industry being notified of the update window date and participant ID ▪ A daily limit/capacity of BUT updates to LMRP values is to be agreed with Industry ▪ AEMO to provide SDQ reports to DNSPs after BUT update(s) have occurred to identify potential standing data anomalies (e.g. an SDQ report on LMRP value set for ineligible meter types) ▪ Where the LMRP attribute is set via BUT, all entitled roles can request and receive the updated value via a C1 report. ▪ As BUT updates do not trigger MSATS Notifications. AEMO recommends performing BUT updates during known windows to ensure all participants can capture and ingest changes ○ Update to CR Process to support DNSP management of LMRP attribute for an NMI <ul style="list-style-type: none"> ▪ CR to support updates to LMRP values by DNSPs over the acceleration period ▪ Utilise existing 5000 series CRs and validation Rules for DNSP and AEMO staff ▪ Where the LMRP attribute is set via CR, all entitled roles are notified of the value via the MSATS Notification or can request the updated value via the C1 report • LMRP value accessible to entitled participant roles (explicitly limited to the FRMP at the NMI in MSATS) via: <ul style="list-style-type: none"> ○ MSATS Reports (C1, C4, C7) ○ MSATS Snapshot Report ○ MSATS Browser <p>MSATS - Package 1 - Metering Installation Defects - Defect Flag, Defect Type and Originating MC</p> <ul style="list-style-type: none"> • New MSATS NMI Standing Data (CATS_NMI_DATA) attributes to be created: <ul style="list-style-type: none"> ○ Providing the MC with the ability to record a defect at the metering installation in MSATS <ul style="list-style-type: none"> ▪ Records the presence of a defect through a Defect Flag ▪ Format of the MSATS Defect Flag is ‘Y’ or NULL ○ Providing the MC recording the Defect Flag with the ability to record the Defect Type in MSATS <ul style="list-style-type: none"> ▪ Defect Type must match to a list of agreed values (e.g. ‘BOXDAMAGED’, ‘NOSPACE’) ○ Providing the MC recording the Defect Flag with the ability to record their ParticipantID in MSATS <ul style="list-style-type: none"> ▪ Records the ParticipantID of the MC that identified the defect at the metering installation. ▪ Format of the MSATS Originating MC to match that of Party, a 10 character field • MC updates Defect Flag, Defect Type and Originating MC value through new MSATS CRs <ul style="list-style-type: none"> ○ CR to support updates to the Defect Flag, Defect Type and Originating MC by an MC ○ Utilise new 5000 series CRs and validation Rules for MC and AEMO staff ○ Where the Defect Flag, Defect Type and Originating MC attribute is set via CR, all entitled roles are notified of values via the MSATS Notification or can request the updated value via the C1 report

AEMO System	Summary																				
	<ul style="list-style-type: none"> ○ MSATS Browser update to support new CR codes ● Defect Flag, Defect Type and Originating MC value accessible to entitled participant roles via: <ul style="list-style-type: none"> ○ MSATS Reports (C1, C4, C7) ○ MSATS Snapshot Report ○ MSATS Browser ● Upon completion of a 3004/3005 (Exchange of Metering Information) or 3090/3091 (Advanced Meter Exchange) CR: <ul style="list-style-type: none"> ○ IF the decommissioned meter is coded as 'BASIC' or 'MRIM', AND the newly activated meter is coded as 'COMMS*' or 'MRAM', THEN the LMRP, Defect Flag, Defect Type and Originating MC fields for the NMI would be set to Null ● Where required, AEMO to provide new RM29 SDQ queries to MCs to identify standing data anomalies related to their obligations on Defects <p>MSATS - Package 1 - B2M Schema</p> <ul style="list-style-type: none"> ● MSATS shall support the new B2M aseXML_r4(n) schema version as LATEST/CURRENT ● MSATS shall support the previous B2M aseXML_r4(n-1) schema version as SUPERSEDED <p>MSATS - Package 2 – Metering Installation Exemption</p> <ul style="list-style-type: none"> ● MSATS shall support the new Metering Exemption Types: <ul style="list-style-type: none"> ○ Individual NMI, Family Failure, Instrument Transformer ● MSATS shall support new Exemption Natures <ul style="list-style-type: none"> ○ Authorised Access, Special Equipment, Volume Management, Procurement Time ● Exemption Window updates: <ul style="list-style-type: none"> ○ A new optional field/checkbox will be added to the exemption windows to indicate if additional documentation has been provided to AEMO. ○ The field will be editable during the following exemption actions: Create, Review, More Info. ● NMI Detail Window updates: <ul style="list-style-type: none"> ○ A new field will be added to the NMI Details windows to specify the substitution method to be used when Substitution Required checkbox is selected. ○ This field will be editable during the following exemption actions: Create, Review and More Info. ● Where required, new validation and compliance reporting will be built to validate compliance to the procedures. 																				
<p>B2B Integrations</p>	<p>The IEC, through the B2B Working Group, has identified changes to existing B2B Transactions to support Package 1 as described in the AEMC’s determination. While AEMO systems face minimal impact as the message broker and host of the B2B Browser LVI, including additional enumerated values affects the aseXML schema and LVI UI managed by AEMO for Industry. The following impacted B2B Transactions, schema, and system impacts have been identified for each component of Package 1.</p> <p>B2B Transactions - Package 1 - LMRP</p> <ul style="list-style-type: none"> ● To support FRMP-initiated ‘Metering Service Works’ Service Orders Requests for LMRP to MPs <table border="1" data-bbox="386 1653 1514 1953"> <thead> <tr> <th colspan="2" data-bbox="386 1653 1514 1682">B2B Transaction Details</th> </tr> </thead> <tbody> <tr> <td data-bbox="386 1682 625 1711">Transaction</td> <td data-bbox="625 1682 1514 1711">Service Order Request</td> </tr> <tr> <td data-bbox="386 1711 625 1740">Transaction Type</td> <td data-bbox="625 1711 1514 1740">Metering Service Works</td> </tr> <tr> <td data-bbox="386 1740 625 1769">Sub Type</td> <td data-bbox="625 1740 1514 1769">Exchange Meter</td> </tr> <tr> <td data-bbox="386 1769 625 1798">Initiator</td> <td data-bbox="625 1769 1514 1798">FRMP</td> </tr> <tr> <td data-bbox="386 1798 625 1827">Recipient</td> <td data-bbox="625 1798 1514 1827">MP</td> </tr> <tr> <td data-bbox="386 1827 625 1856">Notified Parties</td> <td data-bbox="625 1827 1514 1856">DNSP and MDP</td> </tr> <tr> <td data-bbox="386 1856 625 1886">Use Case</td> <td data-bbox="625 1856 1514 1886">Allow the FRMP to identify for the MP that the meter is to be swapped is part of an LMRP by setting RegClassification to 'LMRP'</td> </tr> <tr> <th colspan="2" data-bbox="386 1886 1514 1915">System Impacts</th> </tr> <tr> <td data-bbox="386 1915 625 1953">Schema Impact</td> <td data-bbox="625 1915 1514 1953">Add 'LMRP' to the enumerated list of allowable items for RegClassification in ElectricityEnumerations.xsd Note, ElectricityEnumerations.xsd is a non-versioned enumeration file²</td> </tr> </tbody> </table>	B2B Transaction Details		Transaction	Service Order Request	Transaction Type	Metering Service Works	Sub Type	Exchange Meter	Initiator	FRMP	Recipient	MP	Notified Parties	DNSP and MDP	Use Case	Allow the FRMP to identify for the MP that the meter is to be swapped is part of an LMRP by setting RegClassification to 'LMRP'	System Impacts		Schema Impact	Add 'LMRP' to the enumerated list of allowable items for RegClassification in ElectricityEnumerations.xsd Note, ElectricityEnumerations.xsd is a non-versioned enumeration file ²
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Schema Impact	Add 'Temporary Isolation-One In All In' as a new ServiceOrderSubType in Electricity_r4(n).xsd Note, use of FormNumber to carry a One in All In reference number. Electricity_r4(n).xsd is a versioned enumeration file. An update to this requires a new aseXML_r4(n) schema version																																																																																		
B2B Browser Impact (LVI)	Create a new Supply Service Works subtype 'Create Transaction' browser page to support 'Temporary Isolation-One In All In'																																																																																		
B2B Validation Module Impact	Add 'Temporary Isolation-One In All In' as a new ServiceOrderSubType in the B2B Validation Module																																																																																		
B2B Transaction Details																																																																																			
Transaction	Service Order Request																																																																																		
Transaction Type	Metering Service Works																																																																																		
Sub Type	Install Meter Isolation Device																																																																																		
Initiator	FRMP																																																																																		
Recipient	MP																																																																																		
Notified Parties	-																																																																																		
Use Case	The FRMP to notify the MP to install a meter isolation device only.																																																																																		
System Impacts																																																																																			
Schema Impact	Add 'Install Meter Isolation Device' as a new ServiceOrderSubType in Electricity_r4(n).xsd Note, Electricity_r4(n).xsd is a versioned enumeration file. An update to this requires a new aseXML_r4(n) schema version																																																																																		
B2B Browser Impact (LVI)	Create a new Supply Service Works subtype 'Create Transaction' browser page to support 'Install Meter Isolation Device'																																																																																		
B2B Validation Module Impact	Add 'Install Meter Isolation Device' as a new ServiceOrderSubType in the B2B Validation Module																																																																																		
B2B Transaction Details																																																																																			
Transaction	Service Order Request																																																																																		
Transaction Type	Metering Service Works																																																																																		
Sub Type	Exchange Meter																																																																																		
Initiator	FRMP																																																																																		
Recipient	MP																																																																																		
Notified Parties	DNSP and MDP																																																																																		
Use Case	Allow the FRMP to identify for the MP that the meter is to be swapped is part of an One In All or a Family Failure																																																																																		
System Impacts																																																																																			
Schema Impact	Add 'One In All In' and 'Family Failure' to the enumerated list of allowable items for RegClassification in ElectricityEnumerations.xsd Note, ElectricityEnumerations.xsd is a non-versioned enumeration file ³																																																																																		
B2B Browser Impact (LVI)	Add 'One In All In' and 'Family Failure' to the allowable 'Reg Classification' values to be selectable for the 'Create New Transactions' screens for all sub types under 'B2B Browser > New Transaction > Metering Service Works'																																																																																		
B2B Validation Module Impact	Add 'One In All In' and 'Family Failure' to the list of allowable items for RegClassification in the B2B Validation Module																																																																																		
B2B Transaction Details																																																																																			
Transaction	Service Order Response																																																																																		
Transaction Type	-																																																																																		
Sub Type	-																																																																																		
Initiator	MP																																																																																		

³ Enumerations file containing the electricity specific enumerations that can be added to at short notice and can be released outside of the standard aseXML change cycle. Please see [Notes on non-versioned schema files](#)

AEMO System	Summary																																										
	<table border="1"> <tr> <td>Recipient</td> <td>FRMP</td> </tr> <tr> <td>Notified Parties</td> <td>-</td> </tr> <tr> <td>Use Case</td> <td>Multiple. Please refer to B2B Procedure Service Order Process v3.9 for full list of use cases</td> </tr> <tr> <td colspan="2" style="text-align: center;">System Impacts</td> </tr> <tr> <td></td> <td> Add the following values to the enumerated list of allowable items for SORDResponseCode in the Electricity_r4(n).xsd <ul style="list-style-type: none"> • Appointment Required • Comms Refused • Coordination Failure • Demolished • Dog • Incorrect Service Order • Mismatch with Standing Data • Natural Event • No Access – Network Support Required • Not FRMP • No Adult Present • Obstruction • Shared Fuse - Scoping Required • Site Not Ready • Unable To Isolate • Unable To Locate Site </td> </tr> <tr> <td>Schema Impact</td> <td>Note, Electricity_r4(n).xsd is a versioned enumeration file. An update to this requires a new aseXML_r4(n) schema version</td> </tr> <tr> <td>B2B Browser Impact (LVI)</td> <td>Items in the above list to be included as a selectable option in a Service Order Response</td> </tr> <tr> <td>B2B Validation Module Impact</td> <td>Items in the above list to be added to the list of allowable items for SORDResponseCode</td> </tr> </table> <ul style="list-style-type: none"> • To support DNSP-initiated 'Meter Fault And Issue Notification' One Way Notifications for shared fusing outages to a FRMP <table border="1" style="margin-top: 10px;"> <thead> <tr> <th colspan="2" style="text-align: center;">B2B Transaction Details</th> </tr> </thead> <tbody> <tr> <td>Transaction</td> <td>One Way Notification</td> </tr> <tr> <td>Transaction Type</td> <td>Meter Fault And Issue Notification</td> </tr> <tr> <td>Sub Type</td> <td>-</td> </tr> <tr> <td>Initiator</td> <td>DNSP</td> </tr> <tr> <td>Recipient</td> <td>FRMP</td> </tr> <tr> <td>Notified Parties</td> <td></td> </tr> <tr> <td>Use Case</td> <td>Used by the Network DNSP to advise of a scheduled 'One In All In' outage.</td> </tr> <tr> <td colspan="2" style="text-align: center;">System Impacts</td> </tr> <tr> <td></td> <td>Add 'One In All In' to the enumerated list of allowable items for ReasonForNotice in the ElectricityEnumerations.xsd</td> </tr> <tr> <td>Schema Impact</td> <td>Note, ElectricityEnumerations.xsd is a non-versioned enumeration file</td> </tr> <tr> <td>B2B Browser Impact (LVI)</td> <td>Add 'One In All In' to the allowable 'Reason For Notice' values to be selectable for the 'Create New Transactions' screens for all sub-types under 'B2B Browser > New Transaction > Meter Fault And Issue Notification'</td> </tr> <tr> <td>B2B Validation Module Impact</td> <td>Add 'One In All In' to the list of allowable items for ReasonForNotice in the B2B Validation Module</td> </tr> </tbody> </table>	Recipient	FRMP	Notified Parties	-	Use Case	Multiple. Please refer to B2B Procedure Service Order Process v3.9 for full list of use cases	System Impacts			Add the following values to the enumerated list of allowable items for SORDResponseCode in the Electricity_r4(n).xsd <ul style="list-style-type: none"> • Appointment Required • Comms Refused • Coordination Failure • Demolished • Dog • Incorrect Service Order • Mismatch with Standing Data • Natural Event • No Access – Network Support Required • Not FRMP • No Adult Present • Obstruction • Shared Fuse - Scoping Required • Site Not Ready • Unable To Isolate • Unable To Locate Site 	Schema Impact	Note, Electricity_r4(n).xsd is a versioned enumeration file. An update to this requires a new aseXML_r4(n) schema version	B2B Browser Impact (LVI)	Items in the above list to be included as a selectable option in a Service Order Response	B2B Validation Module Impact	Items in the above list to be added to the list of allowable items for SORDResponseCode	B2B Transaction Details		Transaction	One Way Notification	Transaction Type	Meter Fault And Issue Notification	Sub Type	-	Initiator	DNSP	Recipient	FRMP	Notified Parties		Use Case	Used by the Network DNSP to advise of a scheduled 'One In All In' outage.	System Impacts			Add 'One In All In' to the enumerated list of allowable items for ReasonForNotice in the ElectricityEnumerations.xsd	Schema Impact	Note, ElectricityEnumerations.xsd is a non-versioned enumeration file	B2B Browser Impact (LVI)	Add 'One In All In' to the allowable 'Reason For Notice' values to be selectable for the 'Create New Transactions' screens for all sub-types under 'B2B Browser > New Transaction > Meter Fault And Issue Notification'	B2B Validation Module Impact	Add 'One In All In' to the list of allowable items for ReasonForNotice in the B2B Validation Module
Recipient	FRMP																																										
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B2B Validation Module Impact	Add 'One In All In' to the list of allowable items for ReasonForNotice in the B2B Validation Module																																										
SMP eHub	<p>While there are no functional changes to SMP eHub's data exchange mechanisms to support Packages 1 or 2 as described in the AEMC's determination, changes to the B2B and B2M schema versions required under Package 1 have an indirect impact.</p> <p>eHub - Package 1 - B2B Schema</p> <ul style="list-style-type: none"> • A new schema version shall be available to support all B2B Transaction groups • SMP eHub shall support a new B2B aseXML_r4(n) schema version as LATEST/CURRENT • SMP eHub shall support the previous B2B aseXML_r4(n-1) schema version as SUPERSEDED • SMP eHub shall support schema interoperability between r4(n) and r4(n-1) 																																										
AEMO Provided Software	<p>Participant Batcher – New aseXML schema for B2M.</p> <p>B2B Validation Module – New aseXML schema for B2B.</p> <p>PDR Suite – Batchers, Monitor, Loader – No Impact identified.</p>																																										
IDX interface	<p>A new interface will be made available to facilitate exchange of basic Power Quality data between MCs and DNSPs. AEMO is considering the Fire and Forget Pattern on the IDX platform based on the industry requirements. Technical specifications will be released after detailed consultations with industry. A LVI interface for exchange of basic Power Quality data will also be provided.</p>																																										

AEMO System	Summary
Capacity	Capacity uplifts may be required to manage additional volumes of data flow, and the details will be covered when the detailed requirements and volumetrics are available

5.1.2 Market system interfaces and interactions

- For Package 1, the B2B Validation Module shall be updated to account for the inclusion of additional enumerated values.
- For Package 1, the Participant Batchers shall be updated to account for B2M and B2B schema changes.
- For Package 2, the Metering Exemptions API shall be updated to account for the changed Metering Installation Exemption requirements.
- For Package 3, AEMO shall, as part of the systems implementation, specify requirements on the payload format, protocols, and channels by which basic Power Quality Data shall be exchanged in the market. At this stage AEMO is considering the Fire and Forget pattern on the IDX platform based on the requirements from industry.

5.1.3 MSATS Browser

Updates are needed throughout the MSATS Browser UI to reflect the additional fields added to MSATS for Package 1 (LMRP and Metering Installation Defects) and changes to introduce new CR codes. Additionally, the B2B Browser LVI requires new values to be added to existing dropdown lists in the 'Create New Transaction' screens to support Package 1 (LMRP, Metering Installation Defects, and One in All In).

5.1.4 Reports

Reports

Report Name	Impact
MSATS Snapshot Report	For Package 1, the Snapshot shall be updated to include the attributes required for LMRP and Metering Installation Defect
MSATS Reports	For Package 1, C1, C4, and C7 MSATS reports shall be updated to include the attributes required for LMRP and Metering Installation Defect
RM Reports	New RM29 SDQ queries shall be created to support participants in meeting their procedural obligations under the Rule; the nature of these reports shall be defined during consultation.

5.1.5 APIs

- There are no additional API endpoints, API resources or protocol changes identified under Package 1 or 2.

- For Package 1 and 2, B2M Payload schema changes are required to include the necessary attributes for LMRP, Metering Installation Defects and Metering Exemptions.
- For Package 1, B2B Payload schema changes are required to include the necessary attributes for LMRP, Metering Installation Defects and One In All In.
- For Package 3 BPQD requirements will be used as an input to the IDX decision tree which will determine the message exchange pattern, channel, and payload formats.

5.2 Data Model and Schema Impacts

5.2.1 MSATS Data Model Impacts

- B2M CATS_NMI_DATA support for the following new attributes
 - LMRP
 - Defect Flag
 - Defect Type
 - Originating MC

5.2.2 Schema Impacts

Schema Impacts

Schema	Impact
aseXML (B2M)	<ul style="list-style-type: none"> • New B2M aseXML_r4(n) schema version to support the following new attributes for Package 1, LMRP and Metering Installation Defects: <ul style="list-style-type: none"> ○ LMRP ○ Defect Flag ○ Defect Type ○ Originating MC
aseXML (B2B)	<ul style="list-style-type: none"> • New Electricity_r4(n).xsd version to support the inclusion of new allowable items into the following enumerated lists for Package 1, LMRP, Metering Installation Defects and One in All In: <ul style="list-style-type: none"> ○ For Service Order Request transactions <ul style="list-style-type: none"> ▪ ServiceOrderSubType ○ New Service Order Response transactions <ul style="list-style-type: none"> ▪ SORDResponseCode • The version update to Electricity_r4(n).xsd triggers a required new B2B aseXML_r4(n) schema version • New ElectricityEnumerations.xsd version to support the inclusion of new allowable items into the following enumerated lists: <ul style="list-style-type: none"> ○ For Service Order Request transactions <ul style="list-style-type: none"> ▪ RegClassification ▪ PurposeOfRequest ○ For One Way Notifications transactions <ul style="list-style-type: none"> ▪ ReasonForNotice

Schema	Impact
BPQD schema	<ul style="list-style-type: none"><li data-bbox="411 349 1406 412">• Potential new schema for BPQD exchange may be required depending on the payload type. Further details will be discussed in a technical focus group session with industry.

6 Implementation Pathway

6.1 Key Implementation Considerations

AEMO sought changes from the draft to the final rule and determination that aligned effective dates with AEMO's high-level assessment recommendations. AEMO recommended separating the deliverables into three packages to be developed and deployed to a schedule (package 1, 2 and 3) with a specific goal of enabling the successful commencement of the acceleration work on the planned go live.

Key Rule Commencement Milestones

Milestone	Timeline
DNSPs consult with affected retailers and MCs on a draft Legacy Meter Replacement Program (LMRP)	28 February 2025
AEMO NEM Procedures Package 1 - publication	2 April 2025
DNSPs to submit LMRP proposals to AER for approval	30 June 2025
AEMO NEM Procedures Package 2 - publication	1 July 2025
AER to approve LMRP proposals	1 August 2025
AEMO NEM Procedures Package 3 - publication	30 September 2025
LMRP MSATS changes in place	26 October 2025
DNSPs LMRP details in MSATS	27 November 2025
Commencement date for acceleration period, shared fusing meter replacement procedure, metering installation defects, malfunctions framework, testing and inspection changes	1 December 2025
Commencement for BPQD arrangements	1 July 2026
Deadline for replacing legacy meters (i.e. end of acceleration period)	30 November 2030

AEMO considered the scope of the rule and has made an assessment to bundle the scope into three packages.

Packages and scope

Package #	Scope
Package 1	<ul style="list-style-type: none"> • Accelerated Rollout – LMRP, Metering Installation Defects, one-in-all-in, B2M, B2B, MSATS • For efficiency AEMO has bundled retail market improvements with the MSR project: <ul style="list-style-type: none"> ○ RoLR ○ ICF-077 LCCD Automation and ICF-078 BuildingOrPropertyName2, Address Fields ○ Embedded Settlement Network Anomalies
Package 2	<ul style="list-style-type: none"> • Testing and inspection guidelines • Metering installation malfunctions • Metering exemption fields and automations

Package #	Scope
Package 3	<ul style="list-style-type: none"> Basic Power Quality Data

AEMO considered the timing of procedure consultations and has made an assessment to stagger the procedure consultations for packages 1, 2 and 3.

Procedure Consultation Milestones

Package #	Milestone	Timeline
Package 1	Initial Notice	29 May 2024
	First stage submissions	11 July 2024
	Draft Determination	18 December 2024
	Second Stage Submissions	19 February 2025
	Final Determination	2 April 2025
Package 2	Pre consultation start	22 November 2024
	Initial Notice	3 February 2025
	First stage submissions	3 March 2025
	Draft Determination	14 April 2025
	Second Stage Submissions	13 May 2025
	Final Determination	1 July 2025
Package 3	Pre consultation start	3 February 2025
	Initial Notice	4 April 2025
	First stage submissions	16 May 2025
	Draft Determination	4 July 2025
	Second Stage Submissions	18 August 2025
	Final Determination	30 September 2025

AEMO have considered that industry testing should not occur over periods where there are organisational shutdowns, change freeze periods and over the summer period from an operational perspective.

Industry Testing Milestones

Package #	Scope	Industry Test Commence
Package 1	<ul style="list-style-type: none"> Accelerated Rollout – LMRP, Metering Installation Defects, One in All In, B2M, B2B, MSATS For efficiency AEMO has bundled Retail Market Improvements with the MSR project <ul style="list-style-type: none"> RoLR ICF-077 LCCD Automation and ICF-078 BuildingOrPropertyName2, Address Fields Embedded Settlement Network Anomalies 	8 September 2025
Package 2	<ul style="list-style-type: none"> Testing and inspection guidelines Metering installation malfunctions (guidelines) Metering exemption fields and automations (system changes) 	6 October 2025
Package 3	<ul style="list-style-type: none"> Basic Power Quality Data 	1 April 2026

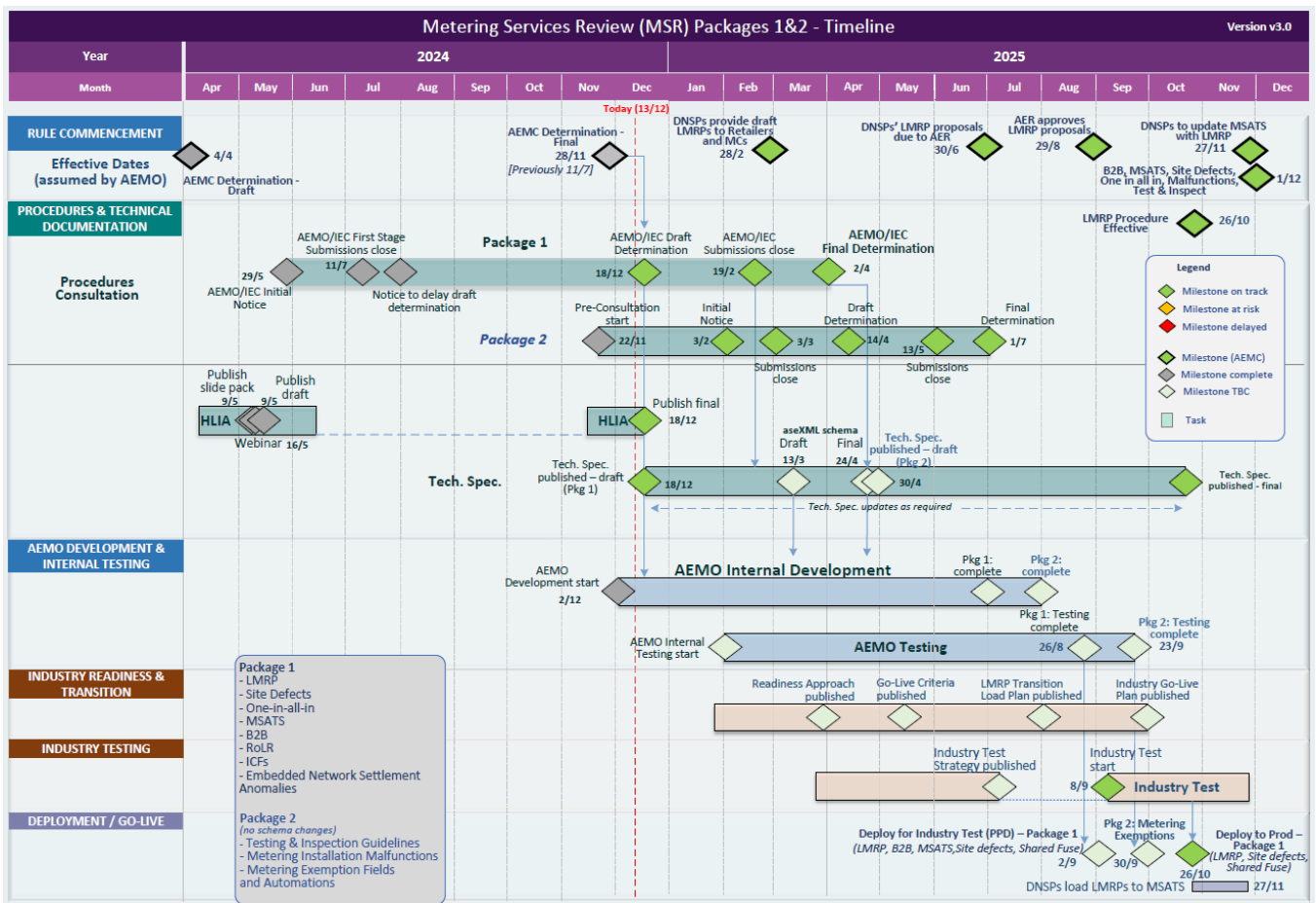


Figure 3 AEMO's Proposed MSR Packages 1 & 2 Proposed Timeline

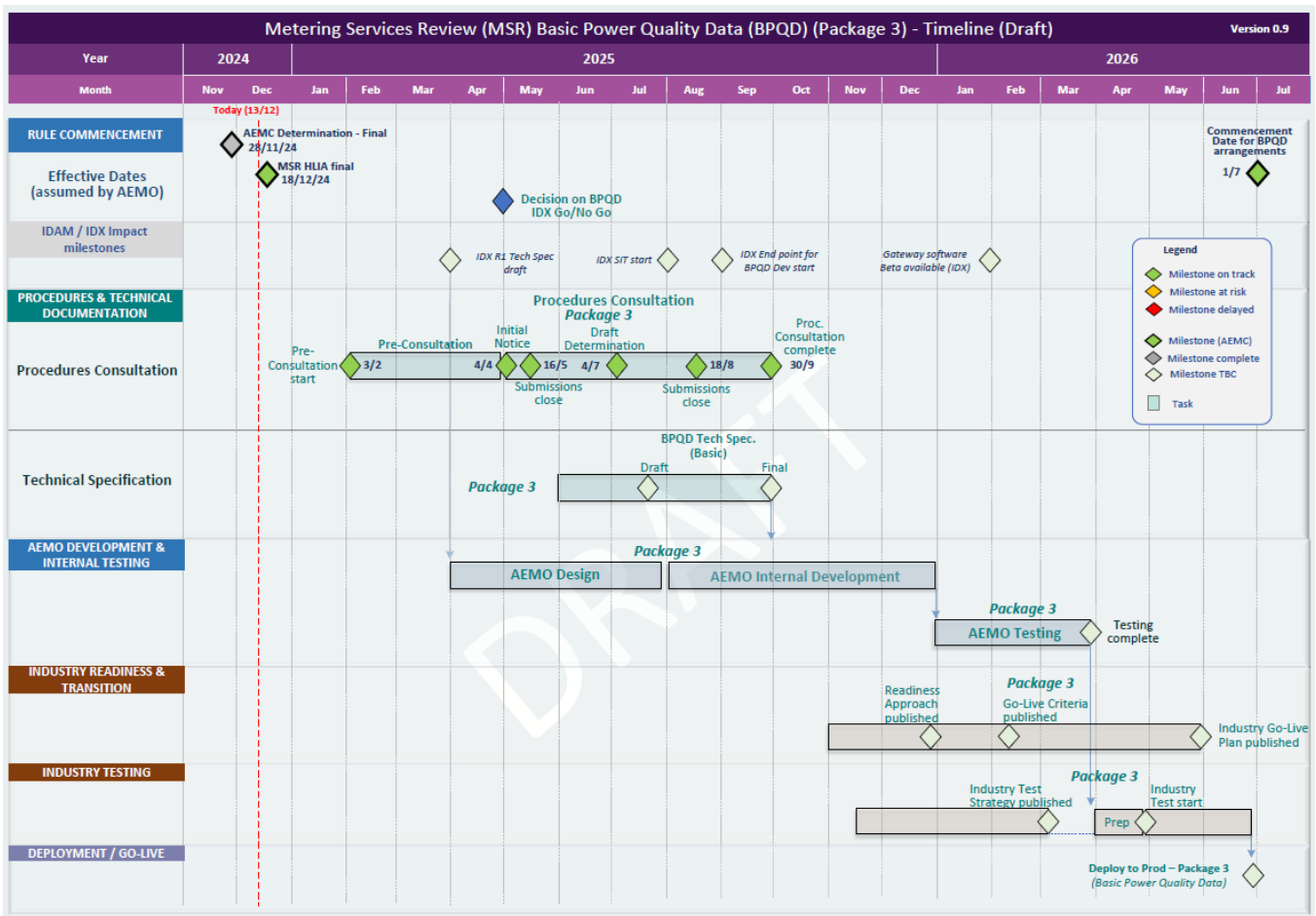


Figure 4 AEMO's Proposed MSR Package 3 Proposed Timeline

6.1.1 Relationships to other initiatives

Regarding other initiative specific relationships AEMO considered:

- The staggering of the consultation timeframes where possible to minimise consultation/s running in parallel with other retail reform initiatives, or where practical leveraging synergies (e.g. including changes proposed in the Unlocking CER benefits through flexible trading arrangements Rule change in the proposed Asset Management Strategy Guidelines consultation).
- Time, effort and cost savings by bundling ICFs and RoLR changes into the Package 1 release.
- For BPQD, AEMO to further consider in consultation with interested parties the use of the Industry Data Exchange (IDX) platform. The IDX external implementation schedule has not been finalised with industry.

For a 'macro' view of the NEM Reform Implementation Roadmap please refer to:

- <https://aemo.com.au/en/initiatives/major-programs/nem-reform-implementation-roadmap>



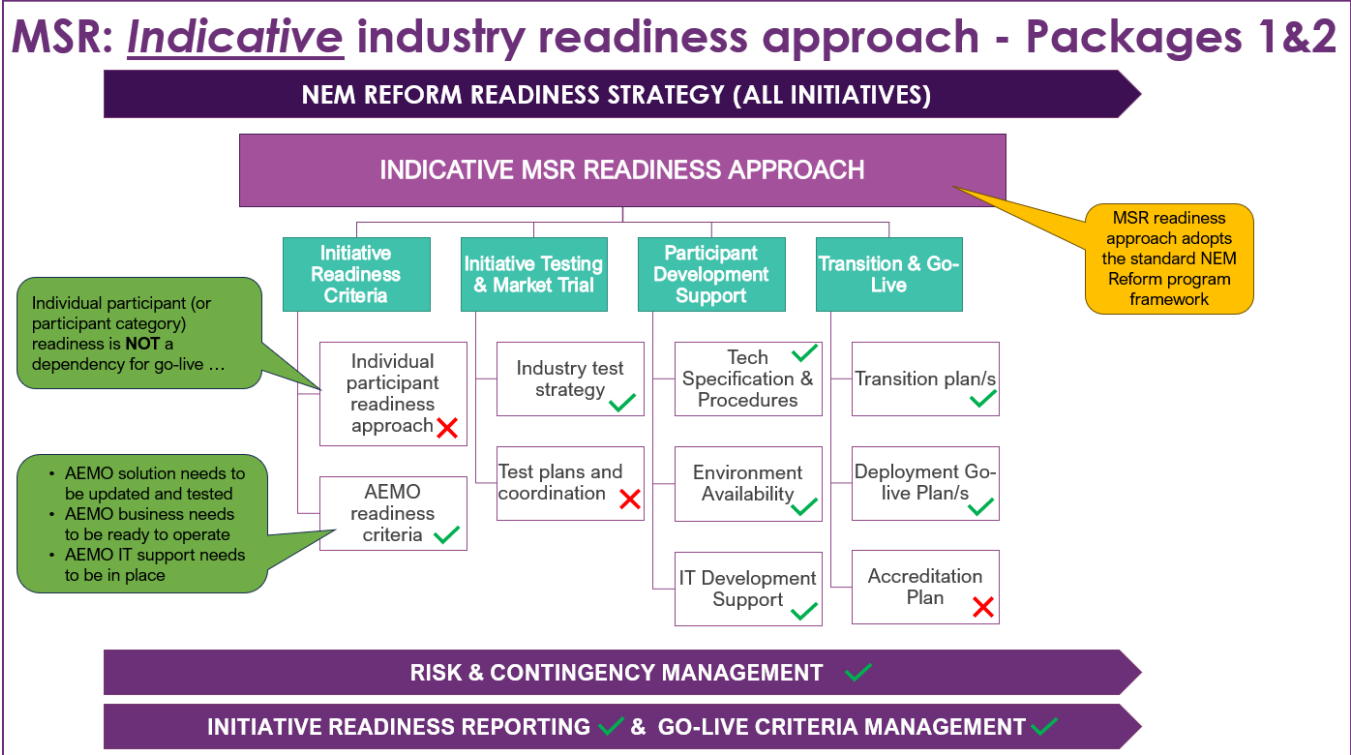
6.1.2 Risks and Issues

Initial Assessment of the risks

Risk ID	Identified Risk	Current Rating	Mitigation strategies	Residual Rating after mitigation
R_0001	Basic Power Quality Data (BPQD) - collectively unable to support an effective date. <ul style="list-style-type: none"> MSR BPQD first project proposed to use IDX 	High	<ul style="list-style-type: none"> Technical focus group with participants from December 2024 to bring forward consultative decision making with industry. Pre consultation with industry commencing February 2025. Go no go for BPQD on IDX April / May 2025 with plan B to develop a B2B-type solution for BPQD. 	Medium
R_0006	Reputation risks resulting from consumer issues with the accelerated smart meter rollout.	Medium	<ul style="list-style-type: none"> Develop talking points for AEMO personnel. High quality comms plan broadly to be developed by the industry. AEMO attendance at relevant consumer forums. Consumer protections included in final rule 	Low
R_0010	Delays in one of the 6 MSR work packages could create delays in other work packages.	Medium	<ul style="list-style-type: none"> Consultation with industry has been staggered to avoid delays in the accelerated rollout. The software branching strategy will have 6 separate branches so that the work packages can be built and tested independently. 	Low
R_0011	Due to 2 system effective dates for MSR release 1, some system functionality could be used by industry after deployment and prior to procedure effective dates for a 1 month window.	Medium	Explore interim manual reporting to ensure procedural compliance	Low
R_0013	Industry readiness is late impacting the overall success of the rule, for example participant LMRP plans are late. <ul style="list-style-type: none"> Note: Individual participant (or participant category) readiness is not a dependency for go-live for AEMO 	High	Through industry readiness strategy, assist industry with their own planning and delivery activities to be ready for the implementation of the changes supporting the Metering Services Review as they are operationalised.	Medium (an external risk factor for entire rule change, to be downgraded to low as milestones are met through 2025)
R_0014	Priority of MSR amongst non-NEM reform projects such as lifecycle projects.	Medium	<ul style="list-style-type: none"> Collaboration between reform and digital to optimise release, resourcing and environment planning. Quarterly planning. 	Low

6.2 Indicative Industry Readiness Approach

This section shows AEMO’s early view of the MSR readiness approach. The following figure provides the indicative view of the MSR readiness approach, consistent with the NEM reform readiness strategy and the following table provides commentary on each of the readiness elements.



Indicative MSR industry readiness approach

Readiness area	Initial view of industry readiness approach
Initiative readiness criteria Individual participant readiness approach AEMO readiness criteria	<ul style="list-style-type: none"> Individual participant (or participant category) readiness is not a dependency for go-live for MSR Packages 1 & 2. However, Participants using AEMO’s Retail Systems may need to upgrade their systems and processes to comply with the rule change. By the MSR Package 1 & 2 commencement date, AEMO’s: <ul style="list-style-type: none"> Solution needs to be updated and tested. Business needs to be ready to operate. IT support needs to be in place.
Initiative testing and market trial Industry test strategy Test plans and coordination	<ul style="list-style-type: none"> An Industry test strategy will be developed in collaboration with industry for MSR Packages 1 & 2 and separately for MSR Package 3. The HLIA indicates that industry testing: <ul style="list-style-type: none"> Will be needed for DNSPs, FRMPs, MDPs, MP and MCs to bilaterally test new and changed Change Requests and MSATS Notifications. Will enable Participants to test the B2M and B2B schema update process. Will enable Participants to test MSATS Browser changes. Will enable DNSPs, FRMPs, MDPs, MP and MCs to validate end to end process. AEMO proposes that a co-ordinated market trial will not be required and that an industry test be facilitated. AEMO has scheduled an industry testing period commencing 12 weeks prior to the Package 1 commencement date. During this period, pre-production will be available for self-testing and bilateral testing of the respective MSR functionality. Test plans are to be developed independently by impacted participants appropriate to own requirements.

Readiness area		Initial view of industry readiness approach
		<ul style="list-style-type: none"> Industry Test Working Group (ITWG) sessions will provide updates on testing progress and for additional support. Sign up here.
Participant development support	Procedures	<ul style="list-style-type: none"> The MSR rule change indicates that updates will be required to the following procedures: B2B Procedures, MSATS Procedures, Metering procedures and Metrology Procedures. Consultation and subsequent changes to existing procedures for Package 1 will need to be finalised by 2 April 2025. Consultation and subsequent changes to existing procedures for Package 2 will need to be finalised by 1 July 2025.
	Technical specifications	<ul style="list-style-type: none"> EMMS data model technical specification: The MSR changes do not impact the EMMS Data Model. MSATS technical specification: MSR Packages 1 & 2 will have an impact on MSATS. It is expected that these changes will be reflected via iterative MSATS technical specification releases. Final versions of the Technical Specifications and aseXML schema changes will be available 4 months prior to the planned industry test commencement. Market Systems User Group (MSUG) sessions will be available for additional support Sign up details.
	Environment availability	<ul style="list-style-type: none"> AEMO's pre-production environment will be available to support industry testing for 3-months prior to the MSR rule commencement in November / December 2025.
	IT development support	<ul style="list-style-type: none"> Initial assessment is that a Participant development support environment is not needed as the MSR changes to AEMO's systems will be only incremental change to the existing systems. It is therefore expected that development support can be managed in the pre-production environment. Environment support for accreditation activities, if necessary, will be considered with the development of the accreditation guidelines.
Transition and go-live	Transition plans	<ul style="list-style-type: none"> AEMO will develop a Transition plan with the DNSPs for their respective Legacy Meter Replacement Plans (LMRPs). AEMO will facilitate the loading of LRMPs into MSATS
	Go-live plan	<ul style="list-style-type: none"> Go-Live Plans will be developed in consultation with industry for MSR Packages 1&2 and MSR Package 3 respectively.
	Registration or accreditation plans	<ul style="list-style-type: none"> There are no accreditation requirements stipulated in the MSR rule however, MCs have additional obligations that will be stipulated in the Guide to the Role of the Metering Coordinator.
Risk & contingency management		<ul style="list-style-type: none"> Will be developed in consultation with industry.
Initiative readiness reporting & go-live criteria management		<ul style="list-style-type: none"> AEMO will report to industry, progress against confirmed L1/L2 industry readiness milestones on a regular basis through NEM Reform forums. Industry Readiness Approach is due to be published by May 2025. AEMO will also provide formal checkpoints against go-live criteria to provide assurance of implementation preparations ahead of industry test period and go-live, allowing time for finalising AEMO's and Participant's business preparations: <ul style="list-style-type: none"> Prior to Industry Test start – 8 September 2025 Go-live criteria will be published by June 2025 (date TBC) Formalised participant readiness reporting is required for DNSPs however, there are no mandatory participant transition or preparation activities that if not performed will impact technical readiness for market or other participants.

7 Participant Impact Assessment

AEMO recognises the significant system and process changes needed by participants to meet the obligations of the Rule, including developing interfaces for B2M and B2B data exchanges with the Market (B2M) and other participants (B2B). This section focuses solely on the latter and does not address the updates participants must make within their systems to support their business processes. Given the diverse levels of system maturity and automation across participants, AEMO cannot predict the exact scale or nature of these impacts for each participant. However, AEMO can highlight common areas likely to be involved in most participants' impact analyses to achieve the Rule outcomes.

7.1 Change Request Process

Focus Area	Impact Heat Map	Impact Description
Change Request Process	Medium	<ul style="list-style-type: none"> Update existing NMI Maintenance 5050/5051 & 5100/5101 CRs to support the population and maintenance of the LMRP attribute. New NMI Maintenance 5300/5301 CRs to support the population and maintenance of Metering Installation Defect attributes New automated processing of existing Exchange of Meter 3004/3005 & 3090/3091 CRs to set LMRP and Metering Installation Defect attributes to NULL upon replacing Type 5 or 6 metering with COMMS* or MRAM metering Inclusion of new attributes into CR Notifications as per MSATS Procedures. Update of MSATS Browser UI to include additional CR fields.

Participant Impacts

Package 1 – LMRP

- DNSPs are required to maintain the LMRP attribute for nominated NMIs via NMI maintenance CRs

Package 1 – Metering Installation Defects – Defect Flag, Defect Type and Originating MC

- MCs are required to maintain the Defect Flag, Defect Type and Originating MC for impacted NMIs via new NMI maintenance CRs when a defect has been identified.
- New automation processing will remove Metering Installation Defect values after the processing of an Exchange of Meter CR where all Legacy meters are exchanged.
- All participants entitled to access the Defect Flag, Defect Type and Originating MC value will receiving the new CATS_NMI_DATA attributes via:
 - MSATS Notifications
 - MSATS C1 Report Response

7.2 NMI Standing Data

Focus Area	Impact Heat Map	Impact Description
NMI Standing Data	Medium	<ul style="list-style-type: none"> • New MSATS NMI standing data attributes to support LMRP • New MSATS NMI standing data attributes to support Metering Installation Defects, Including: <ul style="list-style-type: none"> ○ Defect flag ○ Originating MC to identify the MC that raised the Metering Installation defect. ○ Defect type to be an enumerated list agreed with participants.



Participant Impacts

Package 1

- Participants may need to update their Market Data repositories to reflect the new NMI standing data attributes

7.3 Retail B2B Processes

Focus Area	Impact Heat Map	Impact Description
Retail B2B Processes	Medium	<ul style="list-style-type: none"> • Updates to B2B Service Order and One Way Notification transactions to support new LMRP, Metering Installation Defect and One in All In attributes. • Changes to the MSATS Browser UI to support B2B Transaction updates • Changes to the B2B Validation module to support B2B Transaction updates

Participant Impacts

Package 1

- Participants acting as Initiators, Recipients, or Notified Parties must be able to submit or receive the following:
 - Service Order Requests (SORD):
 - Supply Service Works include new subtypes 'Temporary Isolation-Scoping Request', 'Temporary Isolation-One In All In' and Install Meter Isolation Device
 - For the new Supply Service Works 'Temporary Isolation-One In All In' subtype
 - Metering Service Works for 'Exchange Meter' with a new RegClassification 'LMRP', 'One In All In', 'Family Failure' and a new Purpose of Request 'Remediation Advised'
 - Service Order Responses (SORD):
 - Introduces a new Exception Codes:
 - Appointment Required
 - Comms Refused
 - Coordination Failure
 - Defect
 - Demolished
 - Dog
 - Incorrect Service Order
 - Mismatch with Standing Data
 - Natural Event
 - No Access – Network Support Required
 - Not FRMP
 - No Adult Present
 - Obstruction
 - Shared Fuse - Scoping Required
 - Site Not Ready
 - Unable To Isolate
 - Unable To Locate Site
 - One Way Notifications, Meter Fault and Issue Notification (OWN):
 - Add a new enumerated value 'One In All In' for ReasonForNotice
- FRMPs using the LVI for creating B2B Transactions will need to adapt to updates in the B2B Browser's 'Create New Transaction' UI
- Participants relying on the B2B Validation module for transaction validations must upgrade to the new version published by AEMO

7.4 Blind Update Tool

Focus Area	Impact Heat Map	Impact Description
Blind Update Tool	Low	<ul style="list-style-type: none"> Changes to Blind Update Tool (BUT) to include the Legacy Meter Replacement Plan (LMRP) attribute. Support of BUT to populate of the LMRP attribute during the initial load period. Update of the LMRP attribute after the initial load period will be via agreement with AEMO.

Participant Impacts

Package 1

- DNSPs must populate the LMRP attribute by 27 November 2025 for NMIs with legacy meters, with bulk population available via the BUT.
 - DNSPs to develop BUT payloads to set the LMRP attribute for nominated NMIs
 - DNSPs to use the MSATS Browser BUT UI and/or BUT APIs to submit these BUT payloads
- Participants entitled to access the LMRP value must be capable of receiving the new CATS_NMI_DATA attribute through both:
 - MSATS Notifications
 - BUT updates via the MSATS C1 Report Response⁴

7.5 Data Exchange

Focus Area	Impact Heat Map	Impact Description
Data Exchange	Medium	<ul style="list-style-type: none"> B2M aseXML changes, support for aseXML_r4(n) & aseXML_r4(n-1) and transformations B2B aseXML changes, support for aseXML_r4(n) & aseXML_r4(n-1) A new interface will be made available to facilitate exchange of basic Power Quality data between MCs and DNSPs.

Participant Impacts

⁴ The BUT allows standing data updates that don't generate (a) MSATS 2D history model updates and (b) CATS Notification. For participants to pick up and ingest BUT updates into their Market System standing data repositories, they need to be able to identify BUT updates via the CATS C1 report.



Package 1

B2M

- Participants required to set or access Package 1 attributes must transition to the new (to-be) version of B2M aseXML_r4(n) LATEST
- Other participants have the option to transition to the new (to-be) version of B2M aseXML_r4(n) LATEST or remain on the SUPERSEDED (to-be) B2M aseXML_r4(n-1)
- Participants currently using the existing (as-is) version B2M aseXML_r4(n-2) SUPERSEDED must transition to either the upcoming (to-be) B2M aseXML_r4(n-1) SUPERSEDED or the new (to-be) version of B2M aseXML_r4(n) LATEST

B2B

- Participants acting as Initiators, Recipients, or Notified Parties for the following B2B Transactions must transition to the new (to-be) version of B2B aseXML_r4(n) LATEST:
 - new Service Order Request, Supply Service Works subtypes 'Temporary Isolation-Scoping Request', 'Temporary Isolation-One In All In' and 'Install Meter Isolation Device'
 - Service Order Request, Metering Service Works for 'Exchange Meter'
 - Service Order Responses
 - One Way Notifications, Meter Fault And Issue Notification
- Other participants have the option to transition to the new (to-be) version of B2B aseXML_r4(n) LATEST or remain on the SUPERSEDED (to-be) B2B aseXML_r4(n-1)
- Participants currently using the existing (as-is) version B2B aseXML_r4(n-2) SUPERSEDED must transition to either the upcoming (to-be) B2B aseXML_r4(n-1) SUPERSEDED or the new (to-be) version of B2B aseXML_r4(n) LATEST

Package 3

A new interface will be made available to facilitate exchange of basic Power Quality data between MC's and DNSP's. Refer to section 7.12 for details.

7.6 B2M Schema

Focus Area	Impact Heat Map	Impact Description
B2M Schema	Low	<ul style="list-style-type: none"> • Inclusion of new NMI Standing Data elements in the B2M schema to support LMRP and Metering Installation Defect

Participant Impacts

Package 1

- Participants required to interact with Package 1 attributes must be able to read and write values to the new aseXML elements, and effectively map these elements to the aseXML_r4(n) NMISTandingData defined as MasterData.

7.7 B2B Schema

Focus Area	Impact Heat Map	Impact Description
B2B Schema	Low	<ul style="list-style-type: none"> • Inclusion of new enumerations to existing B2B schema enumerated lists to support, LMRP, Metering Installation Defect and One in All In



Participant Impacts

Package 1

- Participants serving as Initiators, Recipients, or Notified Parties for the new SORD Metering Service Works, subtypes 'Temporary Isolation - Scoping Request' and 'Temporary Isolation - One In All In,' must possess the capability to generate aseXML transaction messages for these subtypes.
- Participants acting as Initiators, Recipients, or Notified Parties for Package 1 attributes in SORD Metering Service Works, Exchange Meter, and OWN Meter Fault and Issue Notification are required to map to new enumerations within the existing ElectricityEnumerations.xsd enumerated lists.

7.8 MSATS Reports

Focus Area	Impact Heat Map	Impact Description
MSATS Reports	Medium	<ul style="list-style-type: none"> Inclusion of new MSATS NMI Standing data attributes in MSATS reports to include LMRP and Metering Installation Defect attributes when populated.

Participant Impacts

Package 1

- All participants entitled to access values for LMRP and Metering Installation Defect will receive new CATS_NMI_DATA attributes through:
 - MSATS Report Response for C1, C4, C7 reports.
 - MSATS Snapshots

7.9 RM Reports & SDQ Reports

Focus Area	Impact Heat Map	Impact Description
RM Reports & SDQ Reports	Low	<ul style="list-style-type: none"> Creation of new RM29 Standing Data Quality (SDQ) queries to support LMRP and Metering Installation Defect, proposed details are: <ul style="list-style-type: none"> LMRP_IN_PAST – to report NMIs where the LMRP date is in the past. LMRP_IS_NULL – to report each NMIs with an active legacy meter that does not have an LMRP value. LMRP_NOT_NULL – to report when LMRP or Metering Installation Defect details are populated and no active Legacy meter exists.

Participant Impacts

Package 1

- MC roles will receive new SDQ results to support the LMRP and Metering Installation Defect management.

7.10 NMI Discovery

Focus Area	Impact Heat Map	Impact Description
NMI Discovery	N/A	<ul style="list-style-type: none"> New LMRP and Metering Installation Defect attributes will not be available via the NMI Discovery process

Participant Impacts

Package 1

- No changes to NMI Discovery, LMRP and Metering Installation Defect will only be available to active participant via CR Notifications, MSATS reports and snapshots.

7.11 Meter Malfunctions

Focus Area	Impact Heat Map	Impact Description
Meter Malfunctions	Low	<ul style="list-style-type: none"> New Malfunction configuration including Type and Nature New exemption attributes to indicate when documentation has been supplied. New NMI attribute to advise Substitution method for NMI where required. Automation of exemption reviews for individual NMI and family failure. Validation of exemption and NMI registration details to support automation, including: <ul style="list-style-type: none"> Rejection of Individual NMI exemption for same NMI within AEMO defined period. Rejection of NMI within family failure within AEMO defined period. Ability to exclude participant id from automated processing. Validation to ensure end date of exemption is within Procedure timeframes. Removal of extension functionality for individual NMI and family failure.

Participant Impacts

Package 2

- Creation of a meter exemption will enable MC to input all exemption details for Individual NMI and Family failures without the need for external documentation.
- Automation of validation and exemption review processes to provide rapid approvals, rejections or follow up.
- Ability to exclude participants from automation where non-conformance is identified.

7.12 Basic Power Quality Data

Focus Area	Impact Heat Map	Impact Description
BPQD	Medium	<ul style="list-style-type: none"> A new interface will be made available to facilitate exchange of basic Power Quality data between MC's and DNSP's. The IDX platform will be used by the participants to manage transfer of data based on the industry requirements. A new payload format will be introduced to support the basic Power Quality Data.

Participant Impacts



Package 3

- MCs will be able to provide basic power quality data to DNSPs via a new interface managed through the IDX platform.
 - The protocol for sending transactions via the new interface will be identified during the solution implementation.
 - MC and DNSP participant will need to be able to support the new payload format.
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